

APPARATUS AND METHOD FOR ACTUATING A  
MECHANICAL DEVICE

ABSTRACT OF THE DISCLOSURE

5 An integrated module encased in protective housing is electrically and mechanically connected to a solenoid, which remotely actuates an Automatic Transfer Switch (ATS) or lighting contactor. The module includes a full-wave bridge rectifier, voltage transient voltage protection circuitry, a proximity detector to determine the solenoid's plunger position, and a mounting strap to attach the solenoid to a frame. In addition, the module accepts various resistor values as plug-in devices to reduce a line voltage and incorporates a communication device/modem for connection to the Internet. The module allows a fixed voltage across the solenoid coil, and permits the solenoid to be connected to various operating voltages.